

General Description:

For this project we had to write two C functions, and then run these functions through a c file and then run the code in tux and then in the mips simulator used for this course. The general idea of what the functions had to do was pretty straight forward but implementing them within the restrictions ended up being the more difficult part of this assignment. In the end it was about working smarter not harder.

Compiler/Environment used:

For the project I used notepad++ to write the code for this project, and then used winscp to transfer the files to tux and then used putty to access tux and run the mips compiler and get the s file, which then the s file was used within QtSpim to compile the mips code and see the console. All of this was done on my AMD Windows 10 personal computer.

Requirements:

Since the code needs to be compiled, you'll need QtSpim to run the code and see that it completes correctly. Otherwise the c code can be viewed with a text editor.

Testing:

While doing this project I heavily used QtSpim's stepper function to walk through code and decipher where errors were originating from and why it was they were occurring. This greatly helped in understanding the program even more and being able to fix issues within my code.

Special/Interesting:

I found this assignment slightly interesting since the solution to the assignment is clever in my opinion and amused me greatly when I understood the logic behind it.

Final Mentions:

I found this project to be a bit backwards when seeing how it relates to what we are studying but also gave a better foundation on my understanding of how code I have already worked with is similar to a language such as mips, and how similar goals can be achieved with both by using basic fundamentals in creative ways. I had difficulty with my program since it continuously entered an infinite loop since the value of "r" kept getting reset back to 0 for some reason before it gets to the if statement again. Otherwise this project had somewhat hard to understand directions just since it felt like they were all over the place with what we were suppose to use and what was needed, the requirements often got lost in the lists of things we should do but are not needed for grade.